

CONDENSED

ARCHITECTS • ENGINEERS

built  
up



roof  
specifications

FOR WESTERN STATES



**CELOTEX EL REY**  
REG. U. S. PAT. OFF.

SALES OFFICES

DENVER

602 Railway Exchange Building  
17th & Champa Streets  
Denver 2, Colorado

LOS ANGELES

3625 W. Sixth Street  
Los Angeles 5, California

PLANT

LOS ANGELES

1633 N. San Pablo  
Los Angeles 31, California

THE CELOTEX CORPORATION • CHICAGO 3, ILLINOIS



## ASPHALT BUILT-UP ROOF SPECIFICATIONS FOR WESTERN STATES

For the convenience of the Architectural and Engineering professions, this abridged manual contains the more popular types of built-up roofs recommended by The Celotex Corporation in the complete Celotex Built-Up Roof Specification Manual (AIA FILE NO. 12-B-1).

Celotex El Rey Built-Up Roof Specifications are divided into three groups depending upon life expectancy and cost. These are designated as:

### AAA (20 YEAR) AA (15 YEAR) A (10 YEAR)

Within each group there is further selection depending on relative costs and variable factors of construction, use, location and serviceability limits.

The manufacturing method of Celotex El Rey Triple-Sealed® Built-Up Roofing Products together with close quality control and many years of experience assures **consistent** high quality—products that will give dependable performance and lasting service.

### ENGINEERING SERVICES:

The Celotex Corporation is prepared to furnish recommendations on the correct type of roof or insulation for more specific problems not covered in the Specification Manuals.

### INSPECTION SERVICE:

The Celotex Corporation will inspect and furnish a certification of compliance on Built-Up roofs of 10,000 square feet and over. The issuance of this certification must be governed by the inspector's decision subject to approval of architect or owner and includes examination of roof deck as well as final inspection after flashing is completed.

No warranty or guarantee of any kind, expressed or implied, is assumed by reason of such inspection or by issuance of such certification (except built-up roof construction which complies with the Celotex El Rey Bonded Roof program).

If inspection service is desired the following should be included in the specification:

**INSPECTION SERVICE:** Roofing contractor shall request inspection service and certification of compliance from The Celotex Corporation in ample time to arrange for this service and to permit inspection of roof deck prior to application of roofing.

## general deck requirements

The following standard provisions for construction of roof decks are requirements for work to be done by trades other than the roofing contractor. Such portions should be included by the architect in the general or roofing specifications when necessary for clarification.

- 1 - roof deck provisions** — Roof decks shall be graded to drain water freely to all drainage connections. Drainage connections should be installed slightly below the roof surface to permit free flow of water. Leaders (drain pipes) should be spaced not more than 50 feet apart for pitched roofs and not more than 75 feet apart for flat roofs. The size of the leaders and gutters depend on the intensity of rainfall and the number of leaders used. Gutters should have as much slope as possible and the outside edge of gutter should not be higher than the roof level or eaves. Roof drains, metal aprons, collars, and sleeves for vent pipes shall be in place for the roofing contractor to attach his work. Large or heavy ventilators, standpipes or louvers shall be securely anchored in place. The surface of all decks shall be broomed clean with all loose and foreign materials removed and prepared for the inspection of the roofing contractor.
- 2 - wood** — The deck shall be constructed of sound, seasoned lumber. All boards shall be securely nailed to each framing member with nail heads driven flush. Ends of boards shall bear on framing members. Cracks, knot holes and joints wider than 1/4" shall be covered with sheet metal.
- 3 - plywood** — Deck shall be constructed of Douglas Fir plywood meeting Commercial Standard CS45-55 or Western softwood plywood meeting Commercial Standard CS122-56 and shall be not less than 1/2" thick applied to framing as follows:—Panels shall be applied with long edges at right angles to framing spaced no more than 24" on center and applied with solid blocking between framing under long edges of panels. Plywood shall be nailed to each framing member through center of panel and at all edges. On plywood decks, omit dry sheet and apply approximately 15# asphalt sprinkle mopping per square keeping mopping back 3" from joints to hold roofing in place prior to nailing. Nail each layer with two nails through tin discs to framing members spaced 8" apart so that all nail heads are covered with succeeding layers of roofing. As an alternate, use 5/8" long, 1/2" head nails and nail as described in wood deck specifications. Surface nail the two dry base coarse felts to deck.
- 4 - poured concrete** — The deck shall be smooth, firm, thoroughly dry and free from frost or the effect of freezing. All depressions shall be filled with Portland Cement (or gypsum mortar) thoroughly bonded to the deck. All sharp corners and projections shall be smoothed. Cracks will be well grouted. Any large and continuous cracks shall be called to the architect's attention so that deck can be prepared to receive roofing. On inclines exceeding 3" in 12", embed wood nailing strips in roof deck parallel with slope not to exceed 3 feet on centers.
- 5 - poured gypsum** — Deck shall be properly graded to outlets, surface shall be smooth, clean of loose materials and free of all projections. Deck shall be free of frost or freezing. When top surface of the deck is free of visible moisture gloss, and is sufficiently dry, roofing may be applied. Gypsum concrete decks dry out from the underside. Therefore, adequate heat and ventilation below the deck are required to draw out and take away the excess moisture. Where windows cannot be opened and in windowless buildings, adequate mechanical ventilation is required to remove construction moisture from the building.
- 6 - precast concrete or gypsum plank** — Planks shall be firmly clipped to the supporting members. Bearing shall be even and full, units laid tight. Joints shall be pointed full with cement grout, gypsum mortar or plastic roofing cement. All roof surfaces shall be smooth and true.
- 7 - poured lightweight concrete deck** or Cemented and Mineralized Organic Fiberboard Deck.  
Consult The Celotex Corporation, Chicago, Illinois, for specifications for Bonded Built-Up Roofing to be applied over these decks.
- 8 - steel** — Deck shall be securely anchored to the roof purlins and all joints shall be made rigid. Steel decks must be painted or be provided with a shop coat of paint or primed with coat of Celotex El Rey asphalt primer. Deck shall be covered with one layer of rigid insulation board such as Celotex Roof Insulation before the roofing application.
- 9 - Cemesto\* panels** — Celotex Cemesto structural insulating panels consist of Celotex fiber board core laminated on both sides with cement asbestos board. When used as a structural deck, they combine insulation and a finished interior ceiling in one unit. Cemesto Panels shall be applied according to specifications included in this manual. (For other uses of Cemesto



Panels see file 5800.) Prior to the application of roofing, all joints shall be caulked with plastic cement and covered with a 6" strip of saturated fabric or roofing felt. The surface shall be primed with asphalt primer. The types of roofing suitable for use over Cemesto Panels are indicated in the foot notes of the "Specification Table".

\*Cemesto is a Registered Trade Mark of The Celotex Corporation.

- 10 - insulating roof deck** — Celotex insulating roof deck consists of 1/2" plies of Celotex fiber board laminated to form 1 1/2", 2" and 3" thick slabs 2'x8' in size with modified tongue and groove

joints on long edges. Channel or strip mop the first ply of felt keeping mopping back from joints and in addition, nail with 1" galvanized roofing nails spaced 10" o.c. both directions. Use Celotex El Rey built-up roof specifications over insulated decks. When used as structural roof deck panels on wood framing in flat or pitched roofs, insulating roof deck combines insulation and a finished interior ceiling in one unit. Both **Standard** and **Vapor-Seal** types are available. (See specifications in this manual.)

NOTE: Celotex El Rey built-up roof specifications may also be used on other acceptable roof decks.

## general application requirements

**Preliminary Inspection:** Before starting work, the roofing contractor, accompanied by the architect or owner's agent, shall examine thoroughly all of the roof deck areas on which the roofing materials are to be applied. The contractor shall report to the architect or owner's agent any defects which he considers detrimental to the proper application of the roofing materials so that such defects can be remedied before the roofing materials are applied.

- 1 - roof insulation** — Roof insulation shall be applied to an approved vaporproofing course or direct to a roof deck. Specifications shall be followed for applying Celotex roof insulation products, or other approved rigid type insulation that will not depress under foot traffic or normal operation of equipment, and permit nailing without depressing below nail heads.

On fluted steel decks, recommended minimum thickness of roof insulation to span or over-hang gaps shall be as included in Celotex Regular and Preseal roof insulation specifications in this manual.

- 2 - vapor barrier** — A vaporproofing course shall be applied under roof insulation on all heated buildings where the average January temperature is below 45 degrees F, and on all buildings anywhere, in which excessive humidity conditions will prevail in use of the building. On poured concrete and poured gypsum decks, a vaporproofing course shall always be used. Specifications for vaporproofing courses are included in Celotex roof insulation specifications in this manual.

- 3 - cant strips and edge strips** — Cant strips shall be provided at all intersections of the roof surfaces with vertical walls, parapets and curbs.

Edge strips shall be provided adjacent to gravel stop nailing bases in flat roof construction.

All cant and edge strips shall be securely attached to the roof deck. When roof insulation board is used, cant or edge strips shall be set on top of insulation board and securely fastened in place either by mopping or by nailing through insulation into nailable type roof decks. For description of Celotex cant and edge strips see specification under roof insulation in this manual.

- 4 - felts** — All felts shall be applied as described in the designated specification so that felt does not touch felt and, so that, in no place on the roof shall there be less than the number of piles of felt called for in the specification. Starting strips shall be of sufficient width to insure the requisite number of piles at the starting point. All asphalt felts shall be rolled in immediately behind the hot mop and laid smooth without wrinkles or buckles so that felt does not touch felt. Whenever end laps occur, they shall be not less than 4 inches.

In some sections of the West the accepted practice is pulling in the base sheets and turning or flopping the cap sheet into position.

NOTE: Wherever 15 lb. felt is included in these specifications, Celotex 15 lb. perforated felt may be substituted.

- 5 - nailing** — Nails shall be large headed, galvanized roofing nails of sufficient length to hold sheathing paper and felts securely in place. Where extreme wind pressure conditions prevail, additional nailing shall be done as required and all nails shall be driven through flat tin discs.

- 6 - asphalt** — Asphalt shall be applied at an average temperature of 375 to 400 degrees F. Do not heat asphalt to a temperature higher than 425 degrees F.

Steep roofing or high melt point asphalt shall be applied on roofs with slopes of 3" per foot and over. Regular asphalt shall be applied on roofs with slopes of less than 3" per foot except in very sunny, hot climates where steep roofing asphalt

should be used to prevent running. Dead level asphalt shall be applied on roofs with slopes of 0" to 1/2" per foot as noted in built-up roof specifications.

- 7 - primer** — All masonry surfaces, both roof decks and walls, which are to receive asphalt, should be primed with at least one coat of Celotex El Rey asphalt concrete primer.

- 8 - gravel** — Size shall be 1/4" to 1/2". All gravel shall be clean, dry and hard. Use a minimum 400 lbs. of gravel per 100 square feet.

NOTE: For increased light reflectivity, white marble chips may be substituted. To add color to roof, crushed ceramic tile or natural colored roofing rock may be used. Crushed tile or rock shall be 1/8" to 3/4" in size.

The flat areas and valleys of curved roof decks such as barrel shape, bowstring or segmented, should be protected by addition of 300 lbs. of gravel embedded in a 50 lb. coating of hot asphalt per 100 sq. ft. of area.

- 9 - gravel stops and edging** — Gravel surfaced roofs shall have gravel stops or edgings with a 4" flange installed at all open roof edges, eaves, gable ends, etc. Cover metal edge on roof with two 12" wide strips of Celotex No. 15 lb. asphalt felt cemented in hot asphalt, or edges should be sealed down with 6" strip of saturated fabric mopped on.

- 10 - outlets** — Apply, either by nailing on nail-holding decks or by mopping on concrete, a 3 foot square strip of felt over outlet opening. Cut out for sump box. Outlet box shall be set in hot asphalt. Where nailing is possible, nail flanges and seal edges with a 6-inch strip of saturated fabric.

- 11 - vents** — Vents shall be set in hot asphalt on first layer of felt. Where nailing is possible, flanges shall be nailed and sealed with a 6-inch strip of saturated fabric. Felts shall be fitted around vents and outlets and shall be sealed with Celotex El Rey plastic cement before gravel is applied.

- 12 - approved flashing and counter flashing methods** — Base flashing and counter flashing shall be installed in accordance with the approved flashing details included in this manual.

- 13 - skylights** — Skylight structures shall be set after the curbs have been flashed, and shall be provided with sheet metal to extend down over the flashing as a counter-flashing. See that weep holes, when used in skylights, are open to permit escape of moisture due to condensation.

- 14 - smooth cap sheet roofing** — To assure continuous serviceability, it is recommended that roofing of this type be recoated every three or four years with Celotex El Rey roof coating.

- 15 - handling and storing of materials** — All felts and insulation shall be kept dry and shall be protected at all times against inclement weather. Precautions taken against weather and control over workmanship and materials ultimately determine the life of the roofing.



# specification table \*

BOND PERIOD	SPECIFICATION NUMBER	PAGE NUMBER	INCLINE, INCHES PER FOOT	TYPE OF DECK	LAYERS OF MATERIAL (WHERE 15 LB. FELT IS INCLUDED EITHER PLAIN OR PERFORATED FELT MAY BE USED)	MATERIAL WEIGHT PER 100 SQUARE FEET							UL RATING	RECOMMENDED FLASHING SPECIFICATION CODE NUMBER
						PRIMER	ASPHALT	FELTS/ ROOFING	GRAVEL	CAP SHEET	COATING	TOTAL WEIGHT		
20 YEAR	AAA1-BW-2G		0" to 1/2"	Wood	5-15 lb. Asphalt Felt		195	75	500			770	A	AAA-1-BW
	AAA2-BC-2G		0" to 1/2"	Concrete*	4-15 lb. Asphalt Felt	8	205	60	500			773	A	AAA-2-BC
	AAA3-BW-G		0" to 1/2"	Wood	5-15 lb. Asphalt Felt		135	75	400			610	A	AAA-1-BW
	AAA4-BC-G	6	0" to 1/2"	Concrete*	4-15 lb. Asphalt Felt	8	145	60	400			613	A	AAA-2-BC
	AAA5-BW-G	7	1/2" to 3"	Wood	5-15 lb. Asphalt Felt		135	75	400			610	A	AAA-1-BW
	AAA6-BC-G		1/2" to 3"	Concrete*	4-15 lb. Asphalt Felt	8	145	60	400			613	A	AAA-2-BC
	AAA7-BG-G		0" to 1/2"	Gypsum	4-15 lb. Asphalt Felt		135	60	400			595	A	AAA-1-BW
	AAA8-BG-G		1/2" to 3"	Gypsum	4-15 lb. Asphalt Felt		135	60	400			595	A	AAA-1-BW
	AAA9-BI-G		0" to 1/2"	Insulation	4-15 lb. Asphalt Felt		165	60	400			625	A	AAA-2-BC
	AAA10-BI-G	8	1/2" to 3"	Insulation	4-15 lb. Asphalt Felt		165	60	400			625	A	AAA-2-BC
	AAA11-BW-G		1/2" to 3"	Wood	1-Asphalt Sheathing 3-40 lb. Spec. Base Sheet		110	127	400			637	A	AAA-1-BW
	AAA12-BC-G		1/2" to 3"	Concrete*	3-40 lb. Spec. Base Sheet	8	120	120	400			648	A	AAA-2-BC
	AAA13-BW-C		0"-1/2", 1/2"-6"	Wood	1-Asphalt Sheathing 2-40 lb. Spec. Base Sheet 1-65 lb. Smooth Cap Sheet		60	87		65	60	272	C	AAA-1-BW
	AAA14-BC-C		0"-1/2", 1/2"-6"	Concrete**	2-40 lb. Spec. Base Sheet 1-65 lb. Smooth Cap Sheet	8	75	80		65	60	288	C	AAA-2-BC
	AAA15-BW-C		0"-1/2", 1/2"-6"	Wood	3-55 lb. Smooth Cap Sheet		60			165	60	285	C	AAA-1-BW
	AAA16-BC-C		0"-1/2", 1/2"-6"	Concrete**	3-55 lb. Smooth Cap Sheet		75			165	60	308	C	AAA-2-BC
15 YEAR	AA1-BW-2G		0" to 1/2"	Wood	1-Asphalt Sheathing 3-15 lb. Asphalt Felt		170	52	500			722	A	AA-1-BW
	AA2-BC-2G		0" to 1/2"	Concrete*	3-15 lb. Asphalt Felt	8	180	45	500			733	A	AA-2-BC
	AA3-BW-G		0" to 1/2"	Wood	4-15 lb. Asphalt Felt		110	60	400			570	A	AA-1-BW
	AA4-BC-G		0" to 1/2"	Concrete*	3-15 lb. Asphalt Felt	8	120	45	400			573	A	AA-2-BC
	AA5-BW-G	9	1/2" to 3"	Wood	4-15 lb. Asphalt Felt		110	60	400			570	A	AA-1-BW
	AA6-BC-G		1/2" to 3"	Concrete*	3-15 lb. Asphalt Felt	8	120	45	400			573	A	AA-2-BC
	AA7-BG-G	10	0" to 1/2"	Gypsum	3-15 lb. Asphalt Felt		110	45	400			555	A	AA-1-BW
	AA8-BG-G		1/2" to 3"	Gypsum	3-15 lb. Asphalt Felt		110	45	400			555	A	AA-1-BW
	AA9-BI-G		0" to 1/2"	Insulation	3-15 lb. Asphalt Felt		140	45	400			585	A	AA-2-BC
	AA10-BI-G		1/2" to 3"	Insulation	3-15 lb. Asphalt Felt		140	45	400			585	A	AA-2-BC
	AA11-BW-CS		1" to 9"	Wood	1-Asphalt Sheathing 2-15 lb. Asphalt Felt 2-19" Selv. Edge Min. Surf. Cap Sheet		75	37		116		228	C	AA-1-BW
	AA12-BC-CS		1" to 6"	Concrete**	2-15 lb. Asphalt Felt 2-19" Selv. Edge Min. Surf. Cap Sheet	8	90	30		116		244	C	AA-2-BC
	AA13-BW-C		0"-1/2", 1/2"-6"	Wood	1-15 lb. Asphalt Felt 2-55 lb. Smooth Cap Sheet		60	15		110	60	245	C	AA-1-BW
	AA14-BC-C		0"-1/2", 1/2"-6"	Concrete**	1-15 lb. Asphalt Felt 2-55 lb. Smooth Cap Sheet	8	75	15		110	60	268	C	AA-2-BC

\* Poured concrete, Precast Gypsum or Precast Concrete Decks

\*\* Poured Concrete, Precast Gypsum or Precast Concrete and Insulated Decks

Specifications for built-up roofs over concrete decks are also suitable for use over Cemesto Structural Panel Roof Decks, see Cemesto Panel Design and Application Data, File 5800.



THESE SPECIFICATIONS ARE FOR THE  
WESTERN STATES OF:

CALIFORNIA  
OREGON  
UTAH  
IDAHO  
NEVADA  
ARIZONA  
MONTANA  
and  
HAWAII

\* This abridged manual contains only those specifications listed in the table below for which a page number is indicated. All specifications in the table are contained in the complete Celotex El Rey Built-Up Roof Specifications Manual (AIA File No. 12-B-1), available on request from your Celotex representative.

5a  
CE

10 YEAR

STANDARD

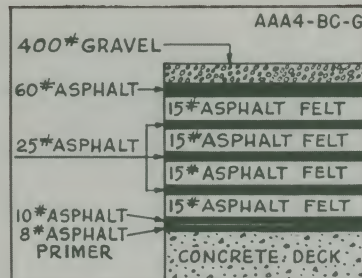
BOND PERIOD	SPECIFICATION NUMBER	PAGE NUMBER	INCLINE, INCHES PER FOOT	TYPE OF DECK	LAYERS OF MATERIAL (WHERE 15 lb. FELT IS INCLUDED EITHER PLAIN OR PERFORATED FELT MAY BE USED)	MATERIAL WEIGHT PER 100 SQUARE FEET							UL RATING	RECOMMENDED FLASHING SPECIFICATION CODE NUMBER
						PRIMER	ASPHALT	FELTS/ ROOFING	GRAVEL	CAP SHEET	COATING	TOTAL WEIGHT		
10 YEAR	A1-BW-G	11	½" to 3"	Wood	1-Asphalt Sheathing 3-15 lb. Asphalt Felt		110	52	400			562	B	A-1-BW
	A2-BC-G		½" to 3"	Concrete**	3-15 lb. Asphalt Felt	8	120	45	400			573	B	A-2-BC
	A3-BW-CS		1" to 9"	Wood	1-30 lb. Asphalt Felt 2-19" Selv. Edge Min. Surf. Cap Sheet		50	30		116		196	C	A-1-BW
	A4-BC-CS	12	1" to 6"	Concrete**	1-30 lb. Asphalt Felt 2-19" Selv. Edge Min. Surf. Cap Sheet	8	65	30		116		219	C	A-2-BC
	A5-BW-G		½" to 3"	Wood	1-Asphalt Sheathing 2-40 lb. Spec. Base Sheet		85	87	400			572	B	A-1-BW
	A6-BC-G		½" to 3"	Concrete**	2-40 lb. Spec. Base Sheet	8	95	80	400			583	B	A-2-BC
	A7-BW-C		½" to 6"	Wood	1-15 lb. Asphalt Felt 2-55 lb. Smooth Cap Sheet		50	15		110	30	205	C	A-1-BW
	A8-BC-C		½" to 6"	Concrete**	1-15 lb. Asphalt Felt 2-55 lb. Smooth Cap Sheet	8	65	15		110	30	228	C	A-2-BC
STANDARD	AA1-W-C	13	2" to 9"	Wood	1-Asphalt Sheathing 2-30 lb. Asphalt Felt 1-55 lb. Smooth Cap Sheet		50	67		55	10	182	C	Br-W; F-W; S-W
	AA2-C-C		2" to 9"	Concrete**	2-30 lb. Asphalt Felt 1-55 lb. Smooth Cap Sheet	8	60	60		55	10	193	C	C-C
	A1-W-CS		2" to 9"	Wood	1-Asphalt Sheathing 2-15 lb. Asphalt Felt 1-90 lb. Mineral Surfaced Cap Sheet		50	37		90		177	C	Br-W; F-W; S-W
	A2-C-CS		2" to 6"	Concrete**	2-15 lb. Asphalt Felt 1-90 lb. Mineral Surfaced Cap Sheet	8	65	30		90		193	C	C-C
	A3-W-CS		3" to 9"	Wood	1-Asphalt Sheathing 1-40 lb. Spec. Base Sheet 1-90 lb. Mineral Surfaced Cap Sheet		25	47		90		162	C	Br-W; F-W; S-W
	A4-C-CS	14	3" to 6"	Concrete**	1-40 lb. Spec. Base Sheet 1-90 lb. Mineral Surfaced Cap Sheet	8	40	40		90		178	C	C-C
	A5-W-C		3" to 9"	Wood	1-Asphalt Sheathing 1-40 lb. Spec. Base Sheet 1-55 lb. Smooth Cap Sheet		25	47		55	10	137	C	Br-W; F-W; S-W
	A6-C-C		3" to 9"	Concrete**	1-40 lb. Spec. Base Sheet 1-55 lb. Smooth Cap Sheet	8	35	40		55	10	148	C	C-C
	A7-W-UT		3" to 6"	Wood	1-Asphalt Sheathing 2-40 lb. Spec. Base Sheet		25	87				112	—	
	A8-C-UT		3" to 6"	Concrete	2-40 lb. Spec. Base Sheet	8	40	80				128	—	

SPECIFICATION CODE NUMBERS AND LETTERS ARE USED AS FOLLOWS:

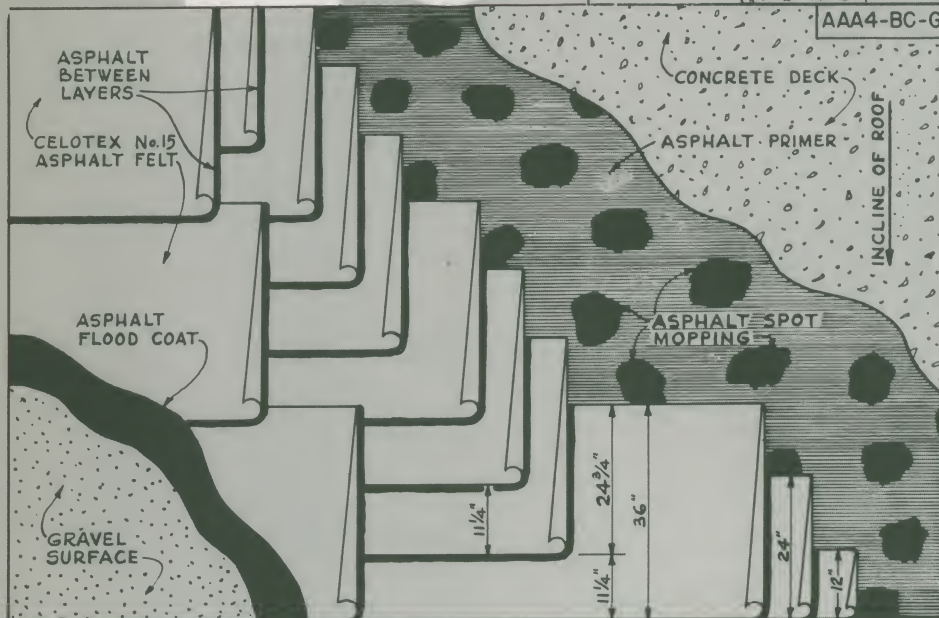
AAA, 20 year; AA, 15 year; A, 10 year; "1 to 16", series number—B, bonded specification; W, wood deck; C, concrete deck; G, gypsum deck; I, insulation—G, gravel surface; 2G, double gravel surface; C, coating; CS, cap sheet; UT, under tile.



# 20 YEAR BOND



aaa4-bc-g



## MATERIAL WEIGHTS PER 100 SQUARE FEET

Asphalt Primer .....	8 lbs.
Dead Level Asphalt Spot Mopping ..	10 lbs.
4 Layers 15 lb. Felt .....	60 lbs.
3 Dead Level Asphalt Moppings ..	75 lbs.
Flood Coat Dead Level Asphalt ..	60 lbs.
Gravel Surface .....	400 lbs.
<b>TOTAL WEIGHT</b>	<b>613 lbs.</b>

INCLINE 0" TO 1/2" PER FOOT

UNDERWRITERS' LABORATORIES CLASS "A"  
RATING, 20-YEAR BONDED ASPHALT ROOF

aaa4-bc-g

## FOUR LAYERS 15-LB. ASPHALT FELT AND GRAVEL OVER POURED CONCRETE PRECAST GYPSUM OR CONCRETE DECKS USING DEAD LEVEL ASPHALT

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**ROOF DECK PREPARATION:** Roof deck shall be thoroughly dry, smooth and free from loose material and properly graded to outlets. Joints between pre-cast units shall be properly filled in. Cant strips shall be installed at all angles.

**APPLICATION: PRIMER.** Prime concrete deck with Celotex asphalt primer, using one gallon per 100 square feet, and allow to dry before roofing felts are applied.

**BASE FELTS.** Spot mop deck with asphalt and while hot embed four layers of Celotex No. 15 asphalt felt. Apply the first three layers shingle fashion, lapping each ply 24 3/4" with exposed lap of 11 1/4". The fourth layer shall cap the first three layers, lapping 2" on sides. Lap at least 4" on ends, with end laps broken not less than 2' apart. Mop each layer of felt solidly with asphalt. Extend all layers up cant strips, trim at walls and mop to cant strip.

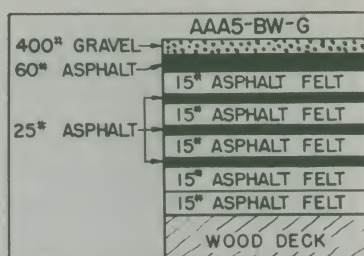
**GRAVEL SURFACING:** Over the entire surface, apply a uniform flood coat of asphalt and, while hot, embed the gravel surfacing.

**BOND:** The Celotex Corporation will issue a Twenty-Year Surety Bond covering performance of this roofing if applied in strict accordance with Celotex El Rey specifications and requirements.

**FLASHING:** The Celotex Corporation will issue a Flashing Endorsement provided the Flashing is applied in strict accordance with Celotex El Rey flashing specifications. (See AAA-2-BC flashing specification section.)

**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. AAA4-BC-G) for use over poured concrete, pre-cast gypsum or concrete decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contractor approved by The Celotex Corporation.



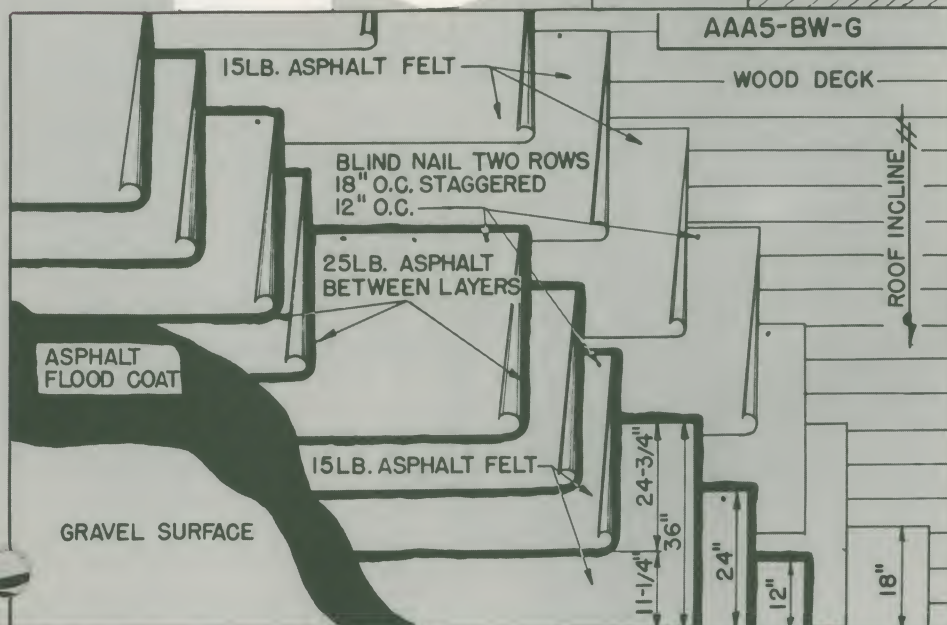
20  
YEAR BOND

aaa5-bw-g

MATERIAL WEIGHTS  
PER 100 SQUARE FEET

5 Layers 15 lb. Felt.....	75 lbs.
3 Asphalt Moppings.....	75 lbs.
Flood Coat .....	60 lbs.
Gravel Surface .....	400 lbs.
<b>TOTAL WEIGHT</b>	<b>610 lbs.</b>

INCLINE ½" TO 3" PER FOOT

UNDERWRITERS' LABORATORIES CLASS "A"  
RATING, 20-YEAR BONDED ASPHALT ROOF

aaa5-bw-g

FIVE LAYERS 15-LB. ASPHALT FELT  
AND GRAVEL OVER WOOD DECKS

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**ROOF DECK PREPARATION:** The roof deck shall be of seasoned lumber free from loose boards, large cracks or knot holes and properly graded to outlets. It shall be firm, smooth and clean. Cant strips shall be installed at all angles.

**APPLICATION: BASE FELTS.** Cover wood sheathing with five layers of Celotex No. 15 asphalt felt. Apply first two layers shingle fashion lapping 19" and allowing 17" exposure. Nail sufficiently to hold in place. Apply next three layers, lapping each ply 24¾" with exposed lap of 11¼". Felts shall be lapped at least 4" on ends with end laps broken not less than 2' apart. Mop each layer of felt solidly with asphalt. Alternate layers shall be blind nailed in two rows, 18" on center, staggered, using 7/8" large head galvanized roofing nails, spaced 12" on center. Extend all layers up cant strip, trim at walls and mop to cant strip.

**GRAVEL SURFACING:** Over the entire surface, apply a uniform flood coat of asphalt and, while hot, embed the gravel surfacing.

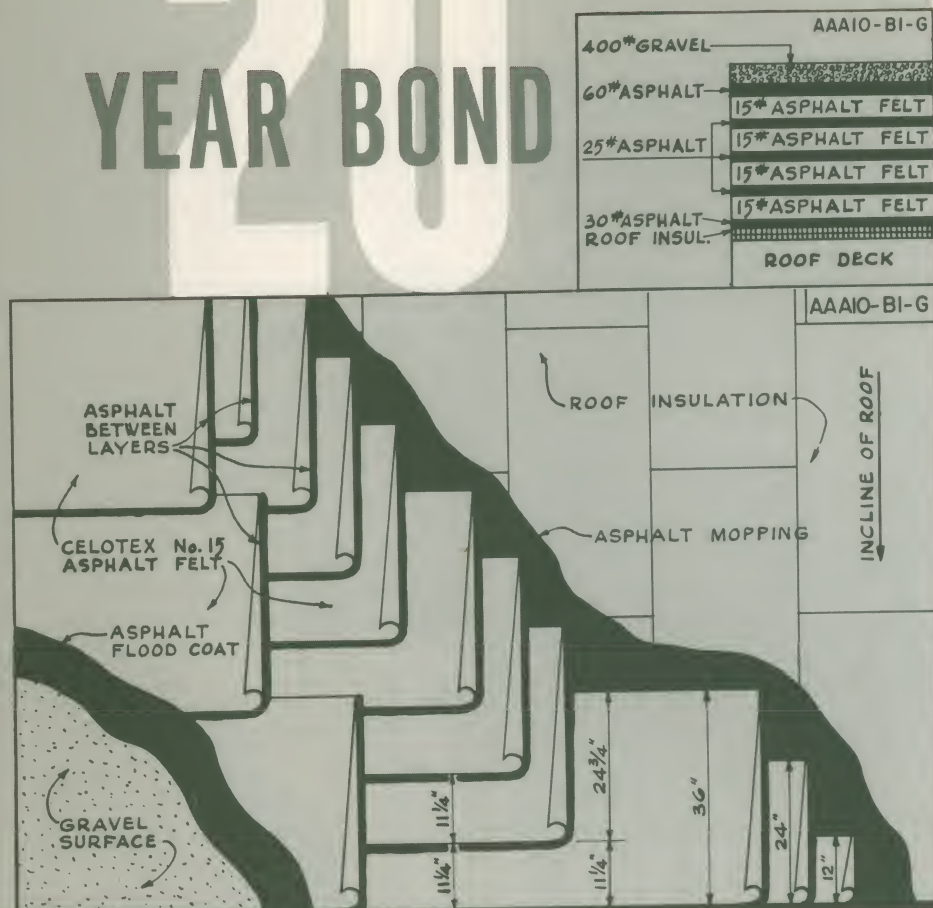
**BOND:** The Celotex Corporation will issue a Twenty-Year Surety Bond covering performance of this roofing if applied in strict accordance with Celotex El Rey specifications and requirements.

**FLASHING:** The Celotex Corporation will issue a Flashing Endorsement provided the flashing is applied in strict accordance with Celotex El Rey flashing specifications. (See AAA-1-BW flashing specification section.)

**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. AAA5-BW-G) for use over wood decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contractor approved by The Celotex Corporation.



# 20 YEAR BOND



aaa10-bi-g

## MATERIAL WEIGHTS PER 100 SQUARE FEET

Asphalt Mopping .....	30 lbs.
4 Layers 15 lb. Felt .....	60 lbs.
3 Asphalt Moppings .....	75 lbs.
Flood Coat .....	60 lbs.
Gravel Surface .....	400 lbs.
<b>TOTAL WEIGHT</b>	<b>625 lbs.</b>

INCLINE 1/2" TO 3" PER FOOT

UNDERWRITERS' LABORATORIES CLASS "A"  
RATING, 20-YEAR BONDED ASPHALT ROOF

aaa10-bi-g

## FOUR LAYERS 15-LB. ASPHALT FELT AND GRAVEL OVER ROOF INSULATION

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**INSULATION:** Roof Insulation shall be applied in accordance with manufacturer's specifications.

**APPLICATION: BASE FELTS.** Over the insulation apply four layers of Celotex No. 15 asphalt felt mopping solidly to roof insulation using 30 lbs. asphalt per 100 square feet. Apply the first three layers shingle fashion, lapping each ply 24 3/4" with exposed lap of 11 1/4". The fourth layer shall cap the first three layers, lapping 2" on sides. Lap at least 4" on ends, with end laps broken not less than 2' apart. Mop each layer of felt solidly with asphalt. Extend all layers up cant strips, trim at walls and mop to cant strip.

**GRAVEL SURFACING:** Over the entire surface, apply a uniform flood coat of asphalt and, while hot, embed the gravel surfacing.

**BOND:** The Celotex Corporation will issue a Twenty-Year Surety Bond covering performance of this roofing if applied in strict accordance with Celotex El Rey specifications and requirements.

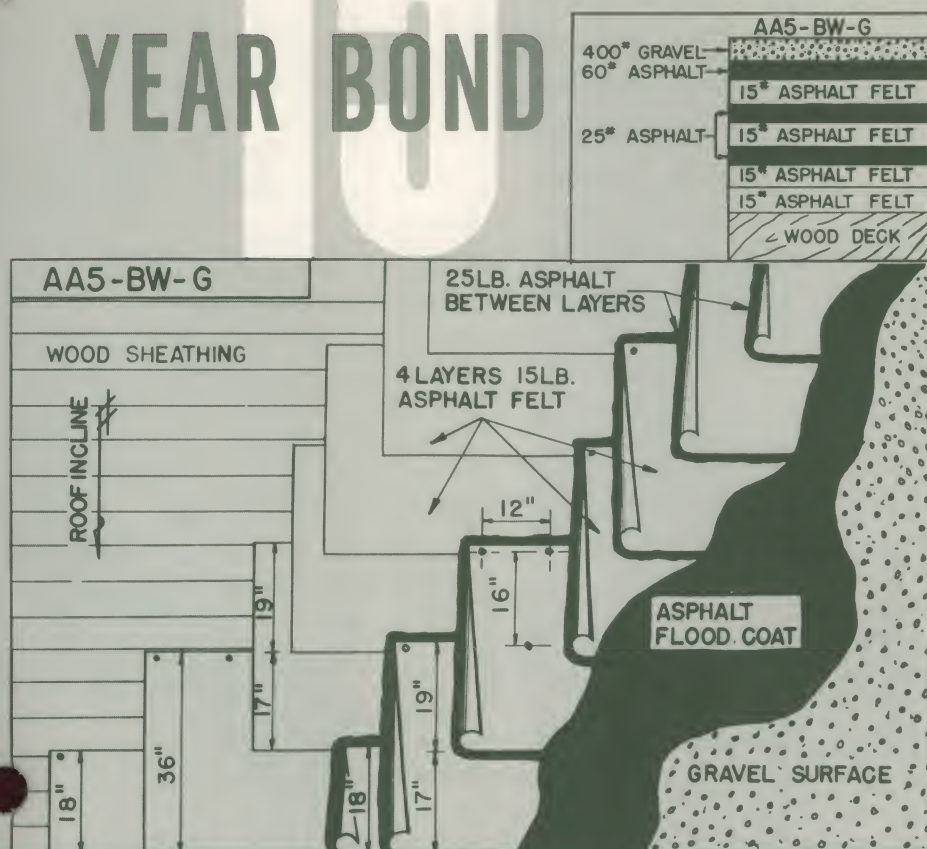
**FLASHING:** The Celotex Corporation will issue a Flashing Endorsement provided the flashing is applied in strict accordance with Celotex El Rey flashing specifications. (See AAA-2-BC flashing specification section.)

**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. AAA10-BI-G) for use over roof insulated decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contract approved by The Celotex Corporation.



# 15 YEAR BOND

aa5-bw-g



## MATERIAL WEIGHTS PER 100 SQUARE FEET

4 Layers 15 lb. Felt.....	60 lbs.
2 Asphalt Moppings.....	50 lbs.
Flood Coat .....	60 lbs.
Gravel Surface .....	400 lbs.
<b>TOTAL WEIGHT</b>	<b>570 lbs.</b>

INCLINE  $\frac{1}{2}$ " TO 3" PER FOOT

UNDERWRITERS' LABORATORIES CLASS "A"  
RATING, 15-YEAR BONDED ASPHALT ROOF

## aa5-bw-g

### FOUR LAYERS 15-LB. ASPHALT FELT AND GRAVEL OVER WOOD DECKS

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**ROOF DECK PREPARATION:** The roof deck shall be of seasoned lumber free from loose boards, large cracks or knot holes and properly graded to outlets. It shall be firm, smooth and clean. Cant strips shall be installed at all angles.

**APPLICATION: BASE FELTS.** Cover wood sheathing with four layers of Celotex No. 15 asphalt felt. Apply first two layers shingle fashion lapping 19" and allowing 17" exposure. Nail sufficiently to hold in place. Apply next two layers, lapping each ply 19" with exposed lap of 17". Felts shall be lapped at least 4" on ends with end laps broken not less than 2' apart. Mop each layer of felt solidly with asphalt. Two top layers shall be blind nailed in two rows, 16" on center, staggered, using  $\frac{7}{8}$ " large head galvanized roofing nails, spaced 12" on center. Extend all layers up cant strip, trim at walls and mop to cant strip.

**GRAVEL SURFACING:** Over the entire surface, apply a uniform flood coat of asphalt and, while hot, embed the gravel surfacing.

**BOND:** The Celotex Corporation will issue a Fifteen-Year Surety Bond covering performance of this roofing if applied in strict accordance with Celotex El Rey specifications and requirements.

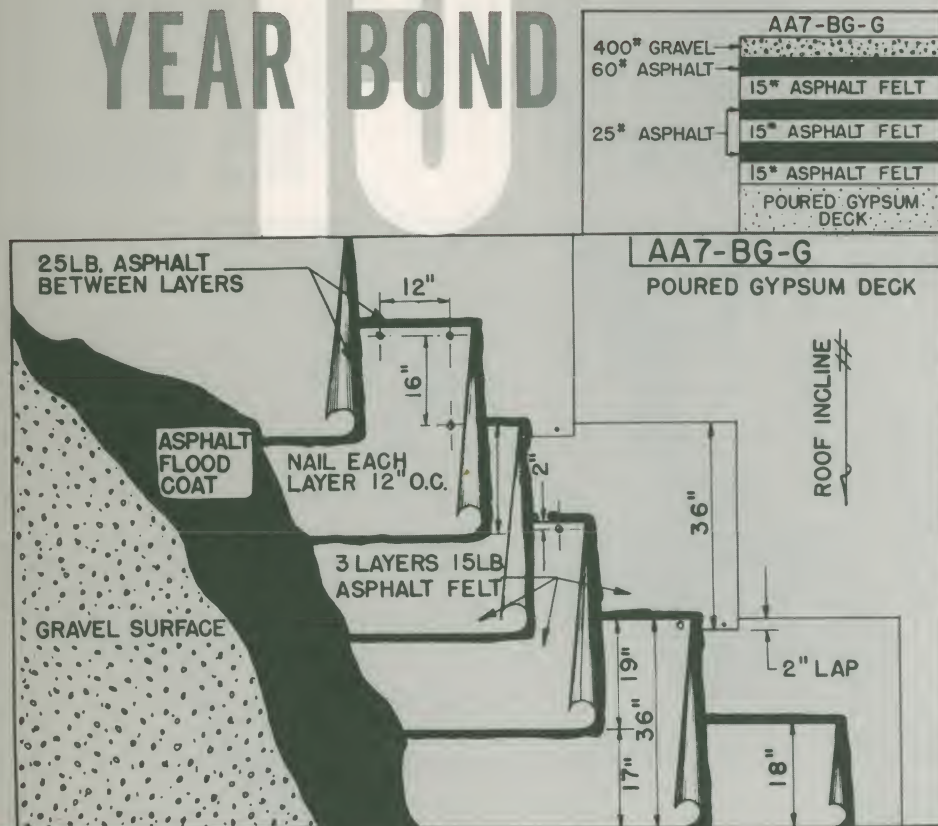
**FLASHING:** The Celotex Corporation will issue a Flashing Endorsement provided the flashing is applied in strict accordance with Celotex El Rey flashing specifications. (See AA-1-BW flashing specification section.)

**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. AA5-BW-G) for use over wood decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contractor approved by The Celotex Corporation.



# 15 YEAR BOND

## aa7-bg-g



### MATERIAL WEIGHTS PER 100 SQUARE FEET

3 Layers 15 lb. Felt . . . . .	45 lbs.
2 Dead Level Asphalt Moppings . . . . .	50 lbs.
Flood Coat . . . . .	60 lbs.
Gravel Surface . . . . .	400 lbs.
<b>TOTAL WEIGHT</b>	<b>555 lbs.</b>

INCLINE 0" TO 1/2" PER FOOT

UNDERWRITERS' LABORATORIES CLASS "A"  
RATING, 15-YEAR BONDED ASPHALT ROOF

## aa7-bg-g

### THREE LAYERS 15-LB. ASPHALT FELT AND GRAVEL OVER POURED GYPSUM DECKS USING DEAD LEVEL ASPHALT

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**ROOF DECK PREPARATION:** Deck surface shall be smooth, free of projections and loose material; properly graded to outlets and free of frost or freezing. When deck is completely set, and the surface free of visible moisture gloss, roofing may be applied.

**VENTILATION:** Gypsum concrete decks dry from the underside. Adequate heat and ventilation are required to draw out and remove excess moisture. Where poor ventilation conditions exist mechanical means shall be used.

**APPLICATION: BASE FELTS.** Apply three layers of Celotex No. 15 asphalt felt. Apply the first layer with sides lapped 2". Nail side lap 12" on center using 6d cut nails, bright or galvanized, driven through tin discs. Apply the other two layers shingle fashion, lapping 19" with exposure of 17". Lap at least 4" on ends, with end laps broken not less than 2' apart. Mop each layer of felt solidly with asphalt. Nail on each exposed edge in two rows 12" on center, stag-

gered. Extend all layers up cant strips, trim at walls and mop to cant strip.

**GRAVEL SURFACING:** Over the entire surface, apply a uniform flood coat of asphalt and, while hot, embed the gravel surfacing.

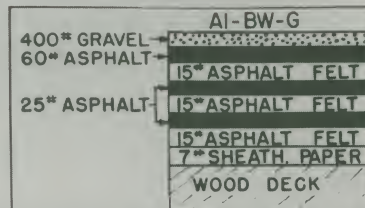
**BOND:** The Celotex Corporation will issue a Fifteen-Year Surety Bond covering performance of this roofing if applied in strict accordance with Celotex El Rey specifications and requirements.

**FLASHING:** The Celotex Corporation will issue a Flashing Endorsement provided the flashing is applied in strict accordance with Celotex El Rey flashing specifications. (See AA-1-BW flashing specification section.)

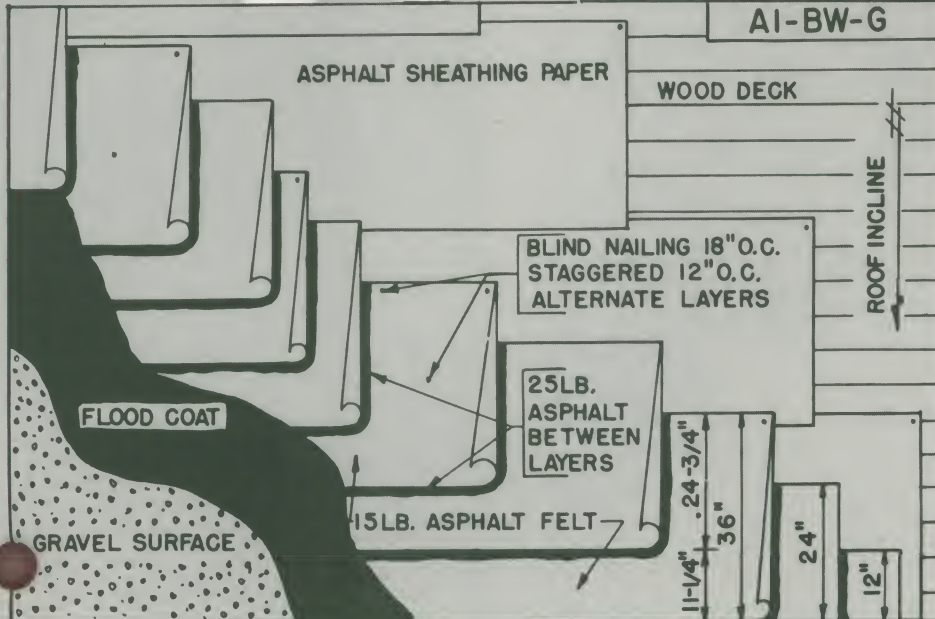
**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. AA7-BG-G) for use over poured gypsum decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contractor approved by The Celotex Corporation.



# 10 YEAR BOND



a1-bw-g



## MATERIAL WEIGHTS PER 100 SQUARE FEET

1 Layer Asphalt Sheathing.....	7 lbs.
3 Layers 15 lb. Felt.....	45 lbs.
2 Asphalt Moppings.....	50 lbs.
Flood Coat .....	60 lbs.
Gravel Surface .....	400 lbs.
<b>TOTAL WEIGHT</b>	<b>562 lbs.</b>

INCLINE ½" TO 3" PER FOOT

UNDERWRITERS' LABORATORIES CLASS "B"  
RATING, 10-YEAR BONDED ASPHALT ROOF

a1-bw-g

## THREE LAYERS 15-LB. ASPHALT FELT AND GRAVEL OVER WOOD DECKS

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**ROOF DECK PREPARATION:** The roof deck shall be of seasoned lumber free from loose boards, large cracks or knot holes and properly graded to outlets. It shall be firm, smooth and clean. Cant strips shall be installed at all angles.

**APPLICATION: DRY SHEET.** Cover wood sheathing with one layer of Celotex asphalt sheathing paper. Provide 2" side lap and 4" end lap. Nail sufficiently to hold in place.

**BASE FELTS.** Over the dry sheet apply three layers of Celotex No. 15 asphalt felt. Apply all layers shingle fashion lapping each ply 24¾" with exposed lap of 11¼". Felts shall be lapped at least 4" on ends with end laps broken not less than 2' apart. Mop each layer of felt solidly with asphalt. Alternate layers shall be blind nailed in two rows, 18" on center, staggered, using 7/8" large head galvanized roofing nails, spaced 12" on center. Extend all layers up cant strip, trim at walls and mop to cant strip.

**GRAVEL SURFACING:** Over the entire surface, apply a uniform flood coat of asphalt and, while hot, embed the gravel surfacing.

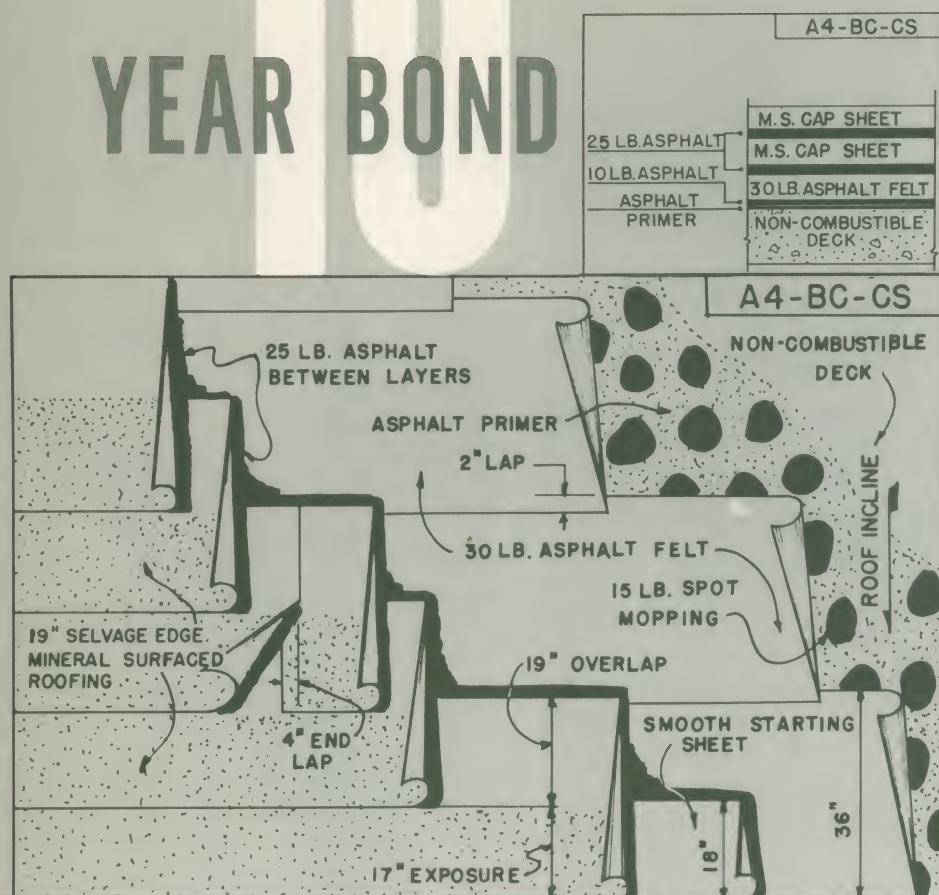
**BOND:** The Celotex Corporation will issue a Ten-Year Surety Bond covering performance of this roofing if applied in strict accordance with Celotex El Rey specifications and requirements.

**FLASHING:** The Celotex Corporation will issue a Flashing Endorsement provided the flashing is applied in strict accordance with Celotex El Rey flashing specifications. (See A-1-BW flashing specification section.)

**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. A1-BW-G) for use over wood decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contractor approved by The Celotex Corporation.



# 10 YEAR BOND



a4-bc-cs

## MATERIAL WEIGHTS PER 100 SQUARE FEET

Asphalt Primer .....	8 lbs.
Asphalt Spot Mopping .....	15 lbs.
1 Layer 30 lb. Felt .....	30 lbs.
2 Layers 19" Selvage Edge Mineral Surfaced Roofing .....	116 lbs.
2 Asphalt Moppings .....	50 lbs.
<b>TOTAL WEIGHT</b>	<b>219 lbs.</b>

## INCLINE 1" TO 6" PER FOOT

UNDERWRITERS' LABORATORIES CLASS "C"  
RATING, 10-YEAR BONDED ASPHALT ROOF

a4-bc-cs

## ONE LAYER 30-LB. ASPHALT FELT AND TWO LAYERS 19" SELVAGE EDGE MINERAL SURFACED ROLL ROOFING OVER POURED CONCRETE, PRECAST GYPSUM OR CONCRETE AND INSULATED DECKS

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**ROOF DECK PREPARATION:** Roof deck shall be thoroughly dry, smooth and free from loose material and properly graded to outlets. Joints between precast units shall be properly filled in. Cant strips shall be installed at all angles.

**APPLICATION: PRIMER.** Prime deck with Celotex asphalt primer, using one gallon per 100 square feet, and allow to dry before roofing felts are applied.

**BASE FELT.** Spot mop deck with asphalt and, while hot, embed one layer of Celotex No. 30 asphalt felt, lapped 2" on sides. Lap at least 4" on ends, with end laps broken not less than 2' apart. Extend felt up cant strips, trim at walls and mop to cant strip.

**CAP SHEETS.** 19" selvage edge mineral surfaced roll roofing shall be cut into strips not exceeding 18 feet in length prior to using and stacked flat for a sufficient time to permit these strips to become perfectly flat. Cover the previously applied surface with asphalt and, while hot, embed two layers of 19" selvage edge mineral surfaced

roofing, lapping each sheet 19" with a 17" exposure. Each layer shall be solidly mopped with asphalt. Ends shall be lapped at least 4" and pressed down firmly into mopping. Break end joints in alternate courses. Extend layers up cant strips, trim at walls and mop to cant strip.

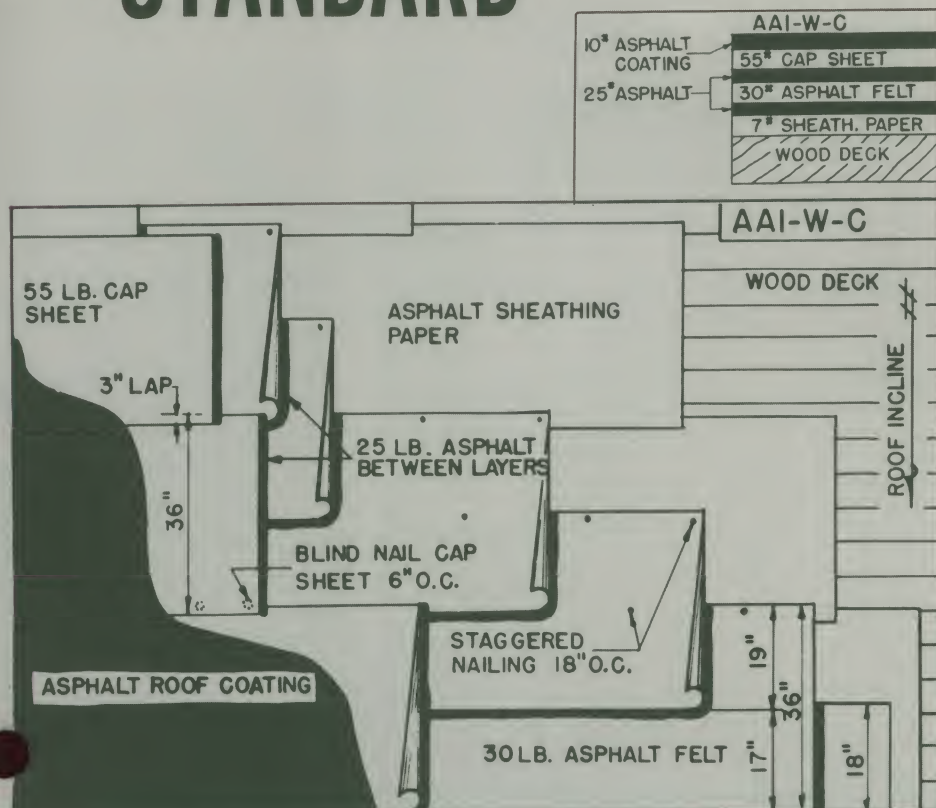
**BOND:** The Celotex Corporation will issue a Ten-Year Surety Bond covering performance of this roofing if applied in strict accordance with Celotex El Rey specifications and requirements.

**FLASHING:** The Celotex Corporation will issue a Flashing Endorsement provided the flashing is applied in strict accordance with Celotex El Rey flashing specifications. (See A-2-BC flashing specification section.)

**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. A4-BC-CS) for use over poured concrete, precast gypsum or concrete and insulated decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contractor approved by The Celotex Corporation.



# STANDARD



## aa1-w-c

### MATERIAL WEIGHTS PER 100 SQUARE FEET

1 Layer Asphalt Sheathing.....	7 lbs.
2 Layers 30 lb. Felt.....	60 lbs.
1 Layer 55 lb. Cap Sheet.....	55 lbs.
2 Asphalt Moppings.....	50 lbs.
1 Gallon Roof Coating.....	10 lbs.
<b>TOTAL WEIGHT</b>	<b>182 lbs.</b>

INCLINE 2" TO 9" PER FOOT

UNDERWRITERS' LABORATORIES  
CLASS "C" RATING

## aa1-w-c

### TWO LAYERS 30-LB. ASPHALT FELT AND ONE LAYER 55-LB. SMOOTH CAP SHEET OVER WOOD DECKS

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**ROOF DECK PREPARATION:** The roof deck shall be of seasoned lumber free from loose boards, large cracks or knot holes and properly graded to outlets. It shall be firm, smooth and clean. Cant strips shall be installed at all angles.

**APPLICATION: DRY SHEET.** Cover wood sheathing with one layer of Celotex asphalt sheathing paper lapped 2" on sides and 4" on ends. Nail sufficiently to hold in place.

**BASE FELTS.** Over the sheathing paper, apply two layers of Celotex No. 30 asphalt felt, laid shingle fashion, lapping 19" and allowing 17" exposure. Nail sufficiently to hold in place. Felts shall be lapped at least 4" on ends with end laps broken not less than 2' apart. Mop each layer of felt solidly with asphalt. Felts shall be nailed in two rows, 18" on center, staggered, using 7/8" large head galvanized roofing nails, spaced 12" on center. Extend all layers up cant strip, trim at walls and mop to cant strip.

**CAP SHEET.** Celotex 55 lb. smooth cap sheet roof-

ing shall be cut into strips not exceeding 18 feet in length prior to using and stacked flat for a sufficient time to permit these strips to become perfectly flat. Cover the previously applied surface with asphalt and, while hot, embed the cap sheet, lapping each sheet 3" over the preceding sheet. Blind nail under the side and end laps 6" on center. End laps shall be at least 6" with joints broken not less than 3' apart.

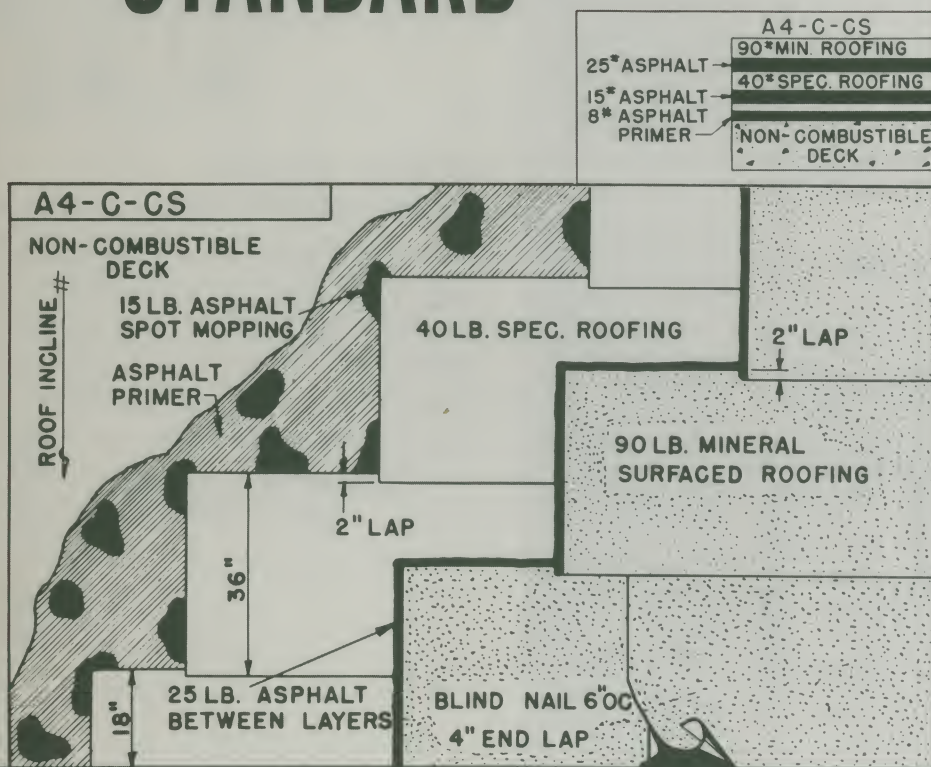
**COATING:** After cleaning, the entire roof area shall be coated with Celotex asphalt roof coating (plain) using one gallon per 100 square feet.

**FLASHING:** (See Br-W; F-W and S-W in the flashing specification section.)

**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. AA1-W-C) for use over wood decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contractor approved by The Celotex Corporation.



# STANDARD



a4-c-cs

## MATERIAL WEIGHTS PER 100 SQUARE FEET

Asphalt Primer .....	8 lbs.
Asphalt Spot Mopping .....	15 lbs.
1 Layer 40 lb. "Spec." Roofing ....	40 lbs.
1 Layer 90 lb. Mineral Surfaced Cap Sheet .....	90 lbs.
1 Asphalt Mopping .....	25 lbs.
<b>TOTAL WEIGHT</b>	<b>178 lbs.</b>

INCLINE 3" TO 6" PER FOOT

UNDERWRITERS' LABORATORIES  
CLASS "C" RATING

a4-c-cs

## ONE LAYER 40-LB. SPECIFICATION BASE SHEET, ONE LAYER 90-LB. MINERAL SURFACE CAP SHEET OVER POURED CONCRETE, PRECAST GYPSUM OR CONCRETE AND INSULATED DECKS

Select and include any of the numbered paragraphs from the "General Requirements Section" as may be necessary to supplement this specification.

**ROOF DECK PREPARATION:** Roof deck shall be thoroughly dry, smooth and free from loose material and properly graded to outlets. Joints between precast units shall be properly filled in. Cant strips shall be installed at all angles.

**APPLICATION: PRIMER.** Prime deck with Celotex asphalt primer, using one gallon per 100 square feet, and allow to dry before roofing felts are applied.

**BASE SHEET.** Spot mop deck with asphalt and, while hot, embed one layer of Celotex 40 lb. "spec." roofing lapped 2" on sides and 4" on ends, with end laps broken not less than 3' apart. Extend this layer up cant strips, trim at walls and mop to cant strip.

**CAP SHEET.** 90 lb. mineral surfaced roll roofing shall be cut into strips not exceeding 18 feet in

length prior to using and stacked flat for a sufficient time to permit these strips to become perfectly flat. Cover the previously applied surface with asphalt and, while hot, embed cap sheet, lapping each sheet 3" over the preceding sheet. Seal the full width of side and end laps and press down firmly into mopping. End laps shall be at least 4" with joints broken not less than 3' apart.

**FLASHING:** (See C-C in the flashing specification section.)

**SHORT FORM SPECIFICATION:** Roofing shall be Celotex El Rey Built-Up Roofing (Specification No. A4-C-CS) for use over poured concrete, precast gypsum or concrete and insulated decks applied in accordance with Celotex El Rey specifications and requirements by a roofing contractor approved by The Celotex Corporation.

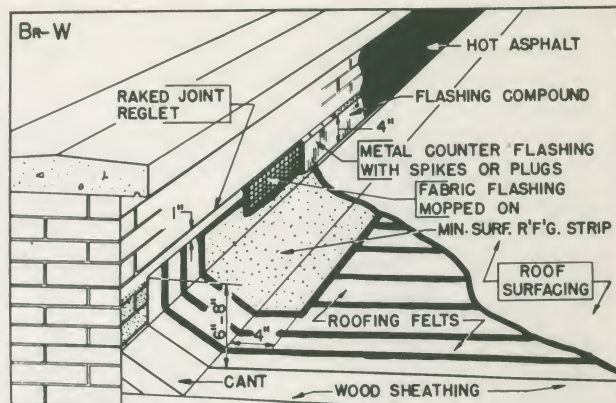


# STANDARD BASE AND COUNTER FLASHING METHODS 5a CE

## R-W

**RAKED JOINT REGLET AND METAL COUNTER FLASHING:** Before the application of the roofing a suitable reglet in brick joint shall be provided at least 6" above the roof line at high point and not less than 8" at the low point. Prime surfaces to be flashed with Celotex asphalt primer and allow to dry. Extend roofing felts over cant strip and up vertical surface to within 1" of the reglet line.

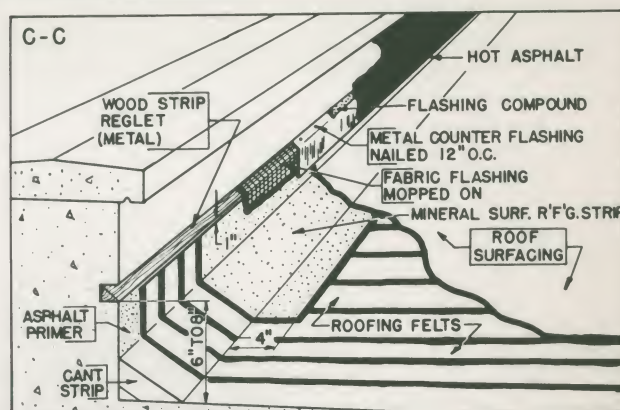
Over the upturned felts apply a Celotex mineral surfaced roofing strip starting 4" out on roof and extending up to top of roofing. Set strip in hot asphalt. Seal the top of the reinforcing strip with a 6" strip of saturated fabric mopped to the roofing and to the wall. Install metal counter flashing at least 1" into wall and extend down over roofing at least 4". The counter flashing shall be held in place in the raked out mortar joint reglet with suitable metal spikes or plugs spaced 12" on center. Point up the reglet joint with Celotex plastic cement or flashing compound. The inside and top of parapet walls shall be coated with a heavy application of hot asphalt.



## C-C

**WOOD REGLET AND METAL COUNTER FLASHING:** Before the application of the roofing a wood strip reglet shall be installed in the concrete parapet wall. The reglet shall be placed at least 6" above the roof level at the high point and not less than 8" at low point. Prime surface to be flashed with Celotex asphalt primer and allow to dry. Extend roofing felts over cant strips and up vertical surfaces to within 1" of the reglet line.

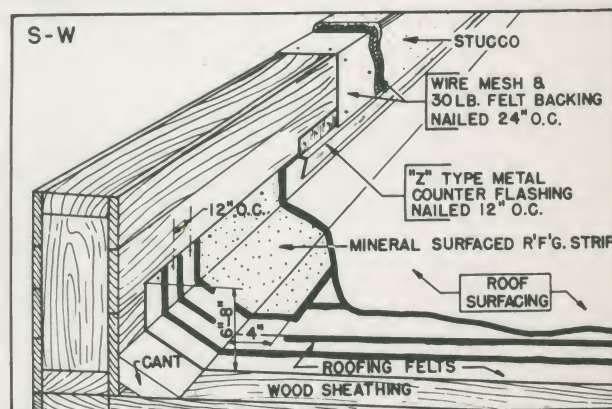
Over the upturned felts apply a Celotex mineral surfaced roofing strip starting 4" out on roof and extending up to top of roofing. Set strip in hot asphalt. Seal the top of the reinforcing strip with a 6" strip of saturated fabric, mop to the roofing and to the wall. Install metal counter flashing at least 1" into wall and extending down over roofing at least 4". If the reglet is a wood strip cast in place in a poured concrete wall, flashing shall be held in place by nailing into strip, spacing nails not over 12" on center. If the reglet is a metal flashing receiver type, counter flashing shall be installed in receiver and secured in accordance with manufacturer's directions for type of flashing used. Point up reglet with Celotex plastic cement or flashing compound. The inside and top of parapet walls shall then be primed first and coated with a heavy application of hot asphalt.



## S-W

**COMBINATION METAL STUCCO STOP AND COUNTER FLASHING:** All roofing felts shall be carried over cant strip and extend up from the parapet walls at least 6" above the roof line at high point and not less than 8" at low point. Turned up edges of roofing shall be nailed to wall.

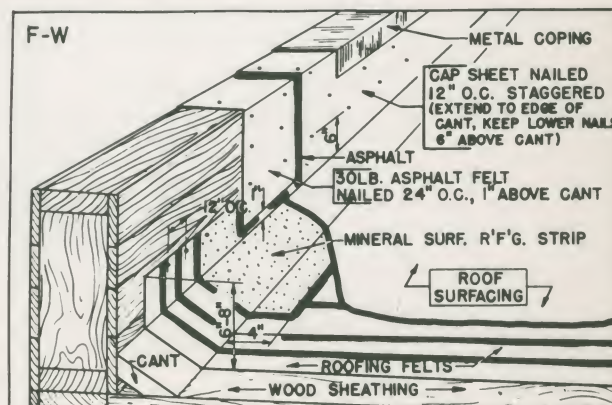
Over the upturned felt apply a Celotex mineral surfaced roofing strip. Set strip in hot asphalt and nail along top edge 12" on center. Cover wall and parapet top with one layer of Celotex 30 lb. asphalt felt as backing for exterior stucco and nail 24" on centers. Install Z-type metal counter flashing and stucco stop. Nail to the wall 12" on center. Metal counter flashing shall extend 3" up under stucco and shall have 1" plaster stop and extend down 4" over upturned roofing. Lap end joints 4" and set in Celotex plastic cement.



## f-w

**CAP SHEET PARAPET WALL TREATMENT:** All roofing felts shall be carried over cant strip and extend up from the parapet walls at least 6" above the roof line at high point and not less than 8" at low point. Turned up edges of roofing shall be nailed to wall.

Over the upturned felt apply a Celotex mineral surfaced roofing strip. Set strip in hot asphalt and nail along top edge 12" on center. Cover all parapet walls with one layer of Celotex 30 lb. asphalt felt. This felt shall extend from 1" above the top of cant strip up and over to the outer edge of parapet wall. Felts shall be nailed 24" on center, staggered, including both edges and shall be mopped with hot asphalt to the roofing turn-up. To this layer mop solidly with hot asphalt Celotex mineral surfaced roofing (or cap sheet that is specified for roof) starting at the top of cant strip and extending up and over to the outer edge of parapet wall far enough to provide a 1" drip. Cap sheets shall be nailed 12" on centers, staggered, including lower edge. Lower row of nails shall not be closer than 6" above the roof line. Metal coping as specified shall be furnished and installed by others.





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